Selection Guide and Optional Parts

Name Plate

GD35 ① 5R5G ② 4 ③ 2 ④ T ⑤ * * ⑥

Sign	Description of the sign	Specific Contents
①	Abbreviation	Goodrive35: Spindle positioning series frequency inverter
②	Power Range + Load Type	5R5-5.5kW G — constant torque load
③	Voltage	4:3-phase 380V～440V
④	IP Class	Protection class (standard product defaulted): 0-IP00; 1-IP20; 2-IP21; 3-IP31; 5-IP54; 6-IP65;
⑤	Synchronous Motor Mark	T: synchronous motor; asynchronous motor defaulted
⑥	Type of PG Card	A1: 5V differential increment encoder B1: 12V differential increment encoder C1: 24V differential increment encoder D1: Resolver H1: 5V/12V differential increment encoder, with pulse/position differential input

Power Ratings

Model No.	Output Power (kW)	Input Current(A)	Output Current (A)	Carrier Frequency (kHz)
GD35-1R5G-4	1.5	5.0	3.7	2~15(8)
GD35-2R2G-4	2.2	5.8	5.0	2~15(8)
GD35-004G-4	4	13.5	9.5	2~15(8)
GD35-5R5G-4	5. 5	19.5	14	2~15(8)
GD35-7R5G-4	7. 5	25	18.5	2~15(8)
GD35-011G-4	11	32	25	2~15(8)
GD35-015G-4	15	40	32	2~8(4)
Big power section	18. 5~75	Determined by rated power	Determined by rated power	2~8(4)

Notes

1.The identification of types of big power section is similar and the power range varies from 18.5kW to 75kW.
2. Installation dimensions of various types are identical to that of Goodrive 300 frequency inverter of the corresponding power grade.

Keypad, communication function and extension card

High Performance Keypad	Identical to that of Goodrive300
Three kinds of communication interface	1. Built-in modbus interface; 2. Two-in-one extension card: Profilebus-DP bus plus Ethernet

Your trusted industry automation solution provider

invt

Service line:86-755-86312859 E-mail:overseas@invt.com.cn Website:www.invt.com

SHENZHEN INVT ELECTRIC CO.,LTD. No. 4 Building, Gaofa Scientific Industrial Park, Longjing, Nanshan District, Shenzhen, China

Industrial Automation: ■Frequency Inverter ■Servo & Motion Control ■Motor & Electric Spindle ■PLC ■HMI ■Intelligent Elevator Control System ■Traction Drive

Electric Power: ■SVG ■Solar Inverter ■UPS ■Online Energy Management System

INVT Copyright.
Information may be subject to change without notice during product improving.

201402(V2.0)

Goodrive35 Product Profile

The Goodrive35 Series Close Loop Vector Control Inverter is developed from the Goodrive300.It is a more accurate and powerful closed-loop vector frequency inverter



Characteristics and Applications

- High performance closed-loop vector control
- High accuracy position control
- Applicable for CNC machine, woodworking machine and non-woven fabrics machine etc.
- Applicable for other industrial applications required for high performance closed-loop vector control

Product Features

Compatible with Multiple Motors

(1) It can drive variety of motors: high-speed motor, electric spindle, variable frequency motor, AC servo motor, various synchronous motor and ordinary asynchronous motor


Electric Spindle


Synchronous Motor


Asynchronous Motor

More Accurate Motor Autotuning

Correct rotating and static motor autotuning.
Convenient debugging,easy operation.

Rotating Autotuning	Static Autotuning
De-couple from the load Applied to the situation with high control accuracy	No need to de-couple from the load Applied when rotating autotuning is not available

Closed-loop Vector Control

More accurate and powerful torque control, speed control and position control

(1) Position control applicable for machine positioning

Characteristics	Goodrive35
Position control precision	±1 pulse

(2) Torque and speed control performance ensure the motor runs stably and responds rapidly with small torque fluctuation

Features	Goodrive35
Speed Ratio	1:1000
Speed Accuracy	±0.02%
Torque Response	<10ms
Torque Control Accuracy	5%
Starting Frequency Starting Torque	0Hz/200%

(3) Excellent weak magnetic control capacity to meet the requirements on rapid acceleration and deceleration.

TÜV SÜD Product Certification

Special function for machine tools

Functions	Description
Frequency Setting	Analog: 0～10V/0～20mA, -10V～+10V, differential pulse, communication and Multi-step Speed
Exact Stopping of Spindle	Built-in 7 scale divisions and 4 zero positions
Position Reference Point	Support externally-connected zero-position detection switch positioning Support Z-phase positioning of the encoder
Servo Control	Pulse string positioning:Position control at any position
Frequency Division Output	Encoder pulse frequency division output
Speed/position Mode	Support terminal switching
Encoder	Support 5V,12V and 24V increment ABZ encoder Maximum frequency<300kHz

Friendly Human Machine Interface

(1) High Performance Keypad
The standard LED keypad supports parameters loading and unloading with Max. length of 200m and digital potentiometer.
The optional external LCD keypad supports parameters loading and unloading with displaying 10 lines and 10 rows of Chinese characters and several languages